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Work Plan:	August	1, 2013 /	Revised:	August	16, 2013	
Reporting Po	eriod:		to			

Attachment 2

SECTION 205(j)(1)/604(b) WORK PROGRAM FOR CALENDAR YEARS 2013-14

Subobjective 2.2.1: Improve Water Quality on a Watershed Basis - Use pollution prevention and restoration approaches to protect and restore the quality of rivers, lakes, and streams on a watershed basis.

Cooling Water Intake Rules & Performance Standards Evaluations

LIST OF PENNSYLVANIA EXISTING §316(b) FACILITIES With Existing Section 316(b) Cooling Water Intake Structures

<u>Facility</u>	Company	Intake Waterbody (Basin)	DEP Region	NPDES Permit No.	Information Collection / Studies
	×	SERO - Norristown			
Cromby Generating Station.	Exelon	Schuylkill River	SERO	PA0011631	Retired in 2011
Eddystone Generating Station	Exelon	Delaware River	SERO	PA0013714	Submitted study
Fairless Hills Gen Station*	Exelon	Delaware River	SERO	PA0013463	Submitted study
Limerick Generating Station	Exelon	Schuylkill River	SERO	PA0019616	BTA**
Schuylkill Gen Station	Exelon	Schuylkill River	SERO	PA0011657	Retiring in 2013
	S	CRO - Harrisburg			
Brunner Island Gen Station	PPL	Susquehanna River	SCRO	PA0008281	Submitted study
Peach Bottom Atomic Power	Exelon	Susquehanna River	SCRO	PA0009733	Submitted study
Three Mile Island Nuclear Station	Exelon	Susquehanna River	SCRO	PA0009920	BTA**
	S	SWRO - Pittsburgh			
Beaver Valley Power Station*	AES (w/ NOVA	Ohio River	SWRO	PA0025615	Submitted study
Armstrong Power Station	First Energy	Allegheny River	SWRO	PA0002917	Retired in 2012
Cheswick Power Station	GenOn	Allegheny River	SWRO	PA0001627	Permit under appea
Elrama Generating Station	GenOn	Monongahela River	SWRO	PA0001571	Retired in 2012
Mitchell Station	First Energy	Monongahela River	SWRO	PA0002895	Retiring in 2013
	N	IERO - Wilkes-Barre			
Hunlock Creek Elec Station	UGI	N Br Susqu River	NERO	PA0008664	Submitted study
Martins Creek	PPL	Delaware River & Oughoughton Cr	NERO	PA0012823	BTA**
Portland Generating Station	GenOn	Delaware River	NERO	PA0012475	Retired in 2012
Susquehanna Steam Elec Station	PPL	Susquehanna River	NERO	PA0047325	BTA**
	N	CRO - Williamsport			
Montour Station	PPL	W. Br. Susq River	NCRO	PA0008443	BTA**
Shawville Generating Station	GenOn	W. Br. Susq River	NCRO	PA0010031	Retiring in 2015
Sunbury Steam Elec Station	Sunbury Generation	Susquehanna River	NCRO	PA0008451	Started
		NWRO - Meadville		1	
Newcastle Gen. Station	GenOn	Beaver River (Ohio River)	NWRO	PA0005061	Retiring in 2015

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Attachment 1

SECTION 205(j)(1)/604(b) WORK PROGRAM FOR CALENDAR YEARS 2013-14

Subobjective 2.2.1: Improve Water Quality on a Watershed Basis - Use pollution prevention and restoration approaches to protect and restore the quality of rivers, lakes, and streams on a watershed basis.

Pennsylvania's Water Quality Standards Program - Stream Redesignation Evaluation

Proposed Water Body Surveys

2014 Stream Redesignation Evaluations

Stream	County	Survey Purpose
Bushkill	Pike	Stream Petition
Pond Eddy	Pike	Stream Petition
UNT Shohola Creek	Pike	Stream Petition
EB Dyberry Creek	Wayne	Stream Petition
WB Dyberry Creek	Wayne	Stream Petition
Cranberry Creek	Monroe	Stream Petition
Goose Pond Run	Monroe	Stream Petition
Leavitt Branch	Monroe	Stream Petition
Middle Branch	Monroe	Stream Petition
Spruce Mountain Run	Monroe	Stream Petition
Griscom Creek	Monroe	Stream Petition
Michael Creek	Monroe	Stream Petition

	Reporting Period:	to	·
nking water is safe. Restore and maintain oceans, watersheds, and their aquatic ecosystems to prote	ect human health, support econor	nic and recreational activities	, and provide
ect the quality of rivers, lakes and streams on a watershed basis and protect coastal and ocean waters	s.		
on a Watershed Basis – Use pollution prevention and restoration approaches to protect and restore t	he quality of rivers, lakes, and st	reams on a watershed basis.	

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EPA Contact (s): Denise Hakowski State Contact (s): Tony Shaw PRC: 202B06

Is Program - Toxicity testing for impacts of chloride and sulfate on sensitive species, and representative of the ionic matrices of Pennsylvania waters.

	Outputs for CY 2014	
Measures	(Commitments)	Status/Comment
): Number, and national of States and Territories orized Tribes that within eding three year period, d new or revised water riteria acceptable to I reflect new scientific ion from EPA or other s not considered in the standards.	WATER QUALITY STANDARDS PROGRAM: OUTPUT: • PA DEP DWQS would like to contract with researcher(s) to conduct specific toxicity testing studies with sensitive species to characterize chloride and sulfate toxicity, representative of Pennsylvania waters and ion matrices. These toxicity studies would target appropriate sensitive mayfly and other representative species of Pennsylvania freshwater aquatic systems, under various representative pollutant and ionic matrices or dilution series. ACTIVITIES: • Since DEP does not have the expertise to do this requisite toxicity testing, this work will be contracted to experts in toxicity testing.	

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king	water is safe. Restore and maintain oceans, wa	atersheds, and their aquatic ecosystems to	protect human health, support economic and recreational activities, and pr	ovide
ct the	quality of rivers, lakes and streams on a water	shed basis and protect coastal and ocean w	aters.	
n a W	atershed Basis – Use pollution prevention and	restoration approaches to protect and rest	ore the quality of rivers, lakes, and streams on a watershed basis.	
	EPA Contact (s): William Richardson	State Contact (s): Tony Shaw	PRC: 202B06	

gram - Monitoring in response to diseased YOY (Young of Year) and intersex smallmouth bass

	Outputs for CY 2014	
Measures	(Commitments)	Status/Comment
Number, and national f States and Territories rized Tribes that within ling three year period, new or revised water teria acceptable to reflect new scientific on from EPA or other not considered in the tandards.		

Work Plan:	August 1, 2013	1	Revised:	August 16, 2013	
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ect the	quality of rivers, lakes and streams on a water	shed basis and protect coastal and ocean w	aters.	
on a W	atershed Basis – Use pollution prevention and	restoration approaches to protect and rest	ore the quality of rivers, lakes, and streams on a watershed basis.	
	EPA Contact (s): William Richardson	State Contact (s): Tony Shaw	PRC: 202B06	
	Changes while will be one	e Sing to expense to transmit the confict.		

rogram - Macroinvertebrate Sample Processing and Taxonomic Identification for Special Biological Monitoring Projects

Measures	Outputs for CY 2014 (Commitments)	Status/Comment
of States and Territories forized Tribes that within eding three year period, and new or revised water criteria acceptable to a reflect new scientification from EPA or other s not considered in the standards.	WATER QUALITY STANDARDS PROGRAM: OUTPUT: • Macroinvertebrate taxa lists will be generated for the use in evaluating the potential of a macroinvertebrate Index of Biotic Integrity (IBI) for Pennsylvania's large rivers, other biological metric protocol revisions, water quality standards for aquatic life use evaluations, and impairment assessments. ACTIVITIES: • DEP collects large river macroinvertebrate samples in an ongoing effort to develop a large river sampling protocol. Because Chironomidae are ecologically important organisms in these large river systems, they may need to be contracted out for identification to Genus since DEP lacks that specific expertise at this time. Additional biological monitoring projects are anticipated and may require similar contract support to process the collected biological samples.	

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king v	vater is safe. Restore and maintain oceans, wa	tersheds, and their aquatic ecosystems to	protect human health, support economic and recreational activities, and provide	
et the o	quality of rivers, lakes and streams on a waters	shed basis and protect coastal and ocean w	vaters.	- 100.00
n a Wa	atershed Basis – Use pollution prevention and	restoration approaches to protect and rest	tore the quality of rivers, lakes, and streams on a watershed basis.	
	EPA Contact (s): William Richardson	State Contact (s): Tony Shaw	PRC: 202B06	23
			- 25- 14 <u>18 時</u> 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

gram –Increase Monitoring in Areas of Gas Drilling and Related Wastewater Treatment

	Outputs for CY 2014	2 Page 19 Page
Measures	(Commitments)	Status/Comment
Number, and national f States and Territories	WATER QUALITY STANDARDS PROGRAM:	•
rized Tribes that within	OUTPUT:	
ling three year period, new or revised water teria acceptable to	The collected water quality monitor data will form a dynamic database for use by managers to identify and document problems as they are uncovered.	
reflect new scientific on from EPA or other	Stream assessment samples will be analyzed and used by staff biologists for cause/effect assessments.	
not considered in the tandards.	Radiological samples indicating a problem will be referred to the Bureau of Radiation management for follow- up.	
	ACTIVITIES: Increase the number of stream assessments in areas of high density gas drilling activities and related wastewater treatment facilities in order to both establish pre-drilling conditions and monitor for changes as drilling proceeds.	
	Chemistry samples will be taken upstream (control) and downstream of treatment facility discharges, in areas of high density drilling activities, where drilling occurs in sensitive areas, and in response to any flow back water spills. The samples may include major radiological parameters and metals found in fracking flow back water. Both water column and sediment samples will be collected.	
	Staff will deploy continuous water quality monitors to gather primarily specific conductance for the same purposes and the continuous data will be maintained in and analyzed with AQUARIUS software. Must maintain appropriate software license(s).	

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on a Wa	tershed Basis – Use pollution prevention and	restoration approaches to protect and restore t	he quality of rivers, lakes, and streams on a watersl	ned basis.
	EPA Contact (s): Denise Hakowski	State Contact (s): Tony Shaw	PRC: 202B06	
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ogram - PWS Use Determinations

Measures	Outputs for CY 2014 (Commitments)	Status/Comment
of States and Territories orized Tribes that within eding three year period, d new or revised water riteria acceptable to I reflect new scientific ion from EPA or other s not considered in the standards.	 WATER QUALITY STANDARDS PROGRAM: OUTPUT: Water quality assessment summaries for Potable Water Supply use evaluations and input to PA's Water Quality Assessment Database ACTIVITIES: DEP staff will assess the Potable Water Supply (PWS) use attainment status of approximately 55 water body segments by evaluating their physical/chemical quality using procedures outlined in Appendix A of Pennsylvania's "Instream Comprehensive Evaluation Surveys" (August 23, 2011). These PWS assessment results will be captured in PA's Integrated Water Quality Monitoring and Assessment Report, as well as rulemaking recommendations, as warranted. 	

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king water is safe. Re	estore and maintain oceans, v	watersheds, and their aquatic ecosystems to p	rotect human health, support economic and	recreational activities, and provide
the quality of rivers, l	akes and streams on a water	shed basis and protect coastal and ocean wat	ers.	
n a Watershed Basis -	Use pollution prevention and	d restoration approaches to protect and resto	re the quality of rivers, lakes, and streams of	on a watershed basis.
EPA Conta	act (s): Francisco Cruz	State Contact (s): Tom Barron	PRC: 202B80	
Rules & Performance	e Standards Evaluations			
Measures	1 -42/m2 C III:	Outputs for CY 2014 (Commitments)	-	Status/Comment
Percent of non-tribal overed by NPDES at are considered Number, and national high priority state rmits that are issued ed.	implemented under Section intake structures ACTIVITIES: Since the Section 316(b) response to the Riverkeepe by-case basis using Best P facilities within Pennsylva after the Phase II rule was to demonstrate that they have entrainment of fishes and The facilities were require technology evaluations to between July 2008 and Jadates. Based on recent prefunits between 2012 and 200 This review, however, is in	ubmitted by existing facilities, demonstration in 316(b) of the Clean Water Act to reduce aquitof the Clean Water Act Phase II rule was suffer II decision, state agencies are proceeding with rofessional Judgment (BPJ). There were 21 factoria (see table below) that began collecting in promulgated in 2004. Despite the suspension of the extra the Best Technology Available (BTA) for mother aquatic life or propose technologies to be determine the BTA. These facilities were a muary 2009. Review is on-going and is prior test as the propose technologies to be determined the BTA. These facilities were a muary 2009. Review is on-going and is prior test as the propose technologies to be determined the BTA. These facilities were a muary 2009. Review is on-going and is prior test releases, and other notifications, several of 15.	spended by the EPA in May 2007 in implementation of 316(b) on a case-ilities categorized as existing Phase II formation about their intake structure of the rule, these facilities are required inimizing impingement mortality and reduce impingement and entrainment. Intrainment characterization study and requested to submit this information itized on the basis of permit renewal these facilities are scheduled to retire	

SECTION 205(j)(1)/604(b) WORK PROGRAM: Pennsylvania DEP CALENDAR YEARS 2013-14

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inking wate	r is safe. Re	store and maintain ocean	s, watersheds, and their aquatic ecosysten	ns to protect human health, support economi	c and recreational activities, and provide
ect the qual	ity of rivers,	lakes and streams on a v	vatershed basis and protect coastal and oc	ean waters.	
on a Waters	shed Basis –	Use pollution prevention	and restoration approaches to protect and	d restore the quality of rivers, lakes, and stre	ams on a watershed basis.
E	PA Contact	(s): Denise Hakowski	State Contact (s): Tom Barron	PRC: 202B06	
ogram – Str	eam Redesig	gnation Evaluation	A STATE OF THE STA		THE RESERVE THE PROPERTY OF THE PARTY OF THE
Measures	m randy A Sibu Yj varidda,	o de la composición del composición de la composición de la composición del composición de la composic	Outputs for CY 2014 (Commitments)	Loughton of the control of the contr	Status/Comment
b: Number, a of States and orized Tribes ding three yed new or reviriteria accept reflect new son from EPAs not consider standards.	Territories that within ear period, sed water able to scientific A or other	OUTPUT: Complete water body s for the PA Environme tentatively scheduled for ACTIVITIES: During FY14, conduct existing uses. The propertitions, requests from Physical habitat and bi Protection Surveys" (Ja 2011) Quality Assura	approximately 12 stream surveys in order to roposed water body surveys (see Attachm the PA Fish and Boat Commission (PFBC) cological information will be collected follow unuary 12, 2012) and "In-Stream Comprehence Plans. Survey purposes are to evaluate the part of the PA Fish and Boat Commission (PFBC) cological information will be collected follow unuary 12, 2012) and "In-Stream Comprehence Plans. Survey purposes are to evaluate the part of the	rerminations and compile into 2 rulemakings in III consideration. These rulemakings are of determine their appropriate aquatic life or lent 1) originate from EQB re-designation in the Department. It is wing DEP's "Aquatic Life Antidegradation sive Evaluation Survey Protocol (August 23, luate water use designations and identify les, which may require special water quality	